In the Claims:

Listing of all claims:

1	 (Currently Amended) A stand alone welding
2	power supply comprising;
3	a primary mover mechanically coupled to a rotating
4	shaft;
5	a generator having a rotor mechanically coupled to
6	the shaft, and further having a stator magnetically
7	coupled to the rotor, whereby the generator provides a
8	generator output;
9	an inverter having an inverter input in electrical
10	communication with the generator output, wherein the
11	inverter inverts power from the inverter input to
12	provide an inverter output;
13	a controller coupled to the primary mover and
14	having a feedback input; and
15	a feedback circuit coupled to the welding inverter
16	output and the feedback input wherein a feedback signal
17	responsive to at least one welding inverter output
18	operating parameter is provided to the feedback input.
1.	(Original) The power supply of claim 1
2	wherein the primary mover includes a speed control and the
3	controller includes an output coupled to the speed control,
4	wherein the speed of the primary mover is controlled in
5	response to the feedback signal.
1	3. (Original) The power supply of claim 2
2	wherein the speed control includes an idle/run selector for
3	selecting between an idle speed and a run speed in response
4	to the feedback signal.

- 1 4. (Original) The power supply of claim 1
- 2 wherein the controller includes means for controlling at
- 3 least one of a throttle position, a fuel pump, an injection
- timer, a fuel to air ratio, fuel consumption and ignition
- 5 timing.
- 5. (Currently Amended) The power supply of
- 2 claim 1 wherein the at least one operating parameter is
- 3 welding an inverter current.
- 1 6. (Currently Amended) The power supply of
- 2 claim 1 wherein the at least one operating parameter is
- 3 welding an inverter voltage.
- 7. (Currently Amended) The power supply of
- 2 claim 5 wherein the at least one operating parameter further
- 3 includes welding an inverter voltage.
- 1 8. (Original) The power supply of claim 7
- 2 wherein the feedback circuit includes a multiplier, wherein
- 3 the multiplier multiplies signals representative of voltage
- 4 and current to obtain a signal representative of power, and
- 5 further wherein the feedback circuit includes an integrator
- to integrate the signal representative of power.
- 1 9. (Original) The power supply of claim 2
- 2 further including a rectifier that couples the inverter to
- 3 the ac output, and wherein the inverter includes at least
- 4 one input energy storage device that stores rectified energy
- and wherein the controller causes the primary mover to
- 6 increase speed when the energy stored decreases past a
- 7 threshold.

Appl.	No.	10/	629367
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1	10. (Original) The power supply of claim 1
2	wherein the operating parameter is a function of a ripple in
3	the output.

- 1 11. (Currently Amended) The power supply of claim 1 further including a rectifier coupled to the inverter output to provide a dc welding inverter output.
- 1 12. (Original) The power supply of claim 1 2 wherein the generator is a dc generator.
- 1 13. (Currently Amended) The power supply of 2 claim 1 wherein the generator is an ac dc generator, and the 3 inverter incudes includes an input rectifier.
 - 14. (Currently Amended) A stand alone welding
 power supply comprising;
 - a primary mover mechanically coupled to a rotating shaft;
 - a generator having a rotor mechanically coupled to the shaft, and further having a stator magnetically coupled to the rotor, whereby the generator provides a generator output;

an inverter having an inverter input in electrical communication with the generator output, wherein the inverter inverts power from the inverter input to provide an inverter output;

control means, coupled to the primary mover and having a feedback input, for controlling the primary mover; and

feedback means, coupled to the welding inverter output and the feedback input, for providing a feedback

Appl.	No.	10/	629367
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6

signal responsive to at least one welding inverter
output operating parameter to the feedback input.

response to the feedback signal.

- 1 15. (Original) The power supply of claim 14
 2 wherein the primary mover speed control means for
 3 controlling the primary mover's speed, and the control means
 4 includes an output coupled to the speed control means,
 5 wherein the speed of the primary mover is controlled in
- 1 16. (Original) The power supply of claim 15
 2 wherein the speed control means includes an idle/run
 3 selector means for selecting between an idle speed and a run
 4 speed in response to the feedback signal.
- 17. (Original) The power supply of claim 14
 2 wherein the control means includes means for controlling at
 3 least one of a throttle position, a fuel pump, an injection
 4 timer, a fuel to air ratio, fuel consumption and ignition
 5 timing.
- 1 18. (Currently Amended) The power supply of claim 14 wherein the at least one operating parameter is welding inverter current.
- 19. (Currently Amended) The power supply of claim 14 wherein the at least one operating parameter is welding inverter voltage.

20-39. (Cancelled.)

- 1 40. (New) The power supply of claim 18 wherein the 2 at least one operating parameter further includes inverter 3 voltage.
 - 1 41. (New) The power supply of claim 40 wherein the 2 feedback means includes a multiplier means for multiplying 3 signals representative of voltage and current to obtain a 4 signal representative of power, and further wherein the 5 feedback means includes an integrator means for integrating 6 the signal representative of power.
 - 1 42. (New) The power supply of claim 15 wherein the
 2 inverter includes at least one input energy storage means
 3 for storing energy to be inverted by the inverter, and
 4 wherein the control means further includes means for
 5 increasing primary mover's speed when the energy stored
 6 decreases past a threshold.
 - 1 43. (New) The power supply of claim 14 wherein the operating parameter is a function of a ripple in the output.
 - 1 44. (New) The power supply of claim 14 further 2 including a rectifier means coupled to the inverter output 3 for providing a dc inverter output.
 - 1 45. (New) The power supply of claim 14 wherein the 2 generator is a dc generator.
 - 1 46. (New) The power supply of claim 14 wherein the 2 generator is an ac dc generator and the inverter includes a 3 rectifier.

Appl.	No. 10/629367
1	47. (New) A method of providing power
2	comprising;
3	generating an electrical output with an engine and
4	generator;
5	inverting the electrical input to provide an ac
6	inverter output;
7	controlling the engine using feedback indicative
8	of an inverter output operating parameter.
1	48. (New) The method of claim 47 wherein the
2	engine speed is controlled in response to the feedback.
	and the state of t
1	49. (New) The method of claim 48 wherein the step
2	of controlling includes the step of selecting between an
3	idle speed and a run speed in response to the feedback.
	50. (New) The method of claim 47 wherein the step
1	of controlling includes controlling at least one of a
2	throttle position, a fuel pump, an injection timer, a fuel
3	to air ratio, fuel consumption and ignition timing.
4	to air ratio, idei consumption and ignition commission
· 1	51. (New) The method of claim 48 including the
2	step of providing feedback responsive to an inverter
3	current.
1	52. (New) The method of claim 48 including the
2	step of providing feedback responsive to an inverter
3	voltage.
1	53. (New) The method of claim 48 including the
2	step of providing feedback responsive to an inverter power.

- 54. (New) The method of claim 43 wherein step of providing feedback further includes the steps of multiplying signals representative of voltage and current to obtain a signal representative of power, and integrating the signal representative of power.
- 55. (New) The method of claim 58 further including
 the step of storing energy after rectification and wherein
 the step of controlling includes the step of increasing
 engine speed when the energy stored decreases past a
 threshold.
- 56. (New) The method of claim 51 wherein the feedback is responsive to a ripple in the output.
- 57. (New) The method of claim 51 further including the step of rectifying the inverter output to provide a dc inverter output.
- 1 58. (New) The method of claim 47 wherein the step 2 of generating includes the step of generating a dc output.
- 1 59. (New) The method of claim 47 wherein the step 2 of generating includes the step of generating an ac dc 3 output and the step of inverting includes the step of 4 rectifying.